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› Woodstock D4648 Cabinet Maker's Front Vise Instruction Manual

Woodstock D4648

Woodstock D4648 Cabinet Maker's Front Vise Instruction Manual

Model: D4648 | Brand: Woodstock

1. INTRODUCTION

The Woodstock D4648 Cabinet Maker's Front Vise is a robust tool designed for a wide range of woodworking tasks. It provides a stable and secure hold for workpieces during operations such as planing, sawing, sanding, and drilling. This manual provides essential information for the safe and effective installation, operation, and maintenance of your vise.

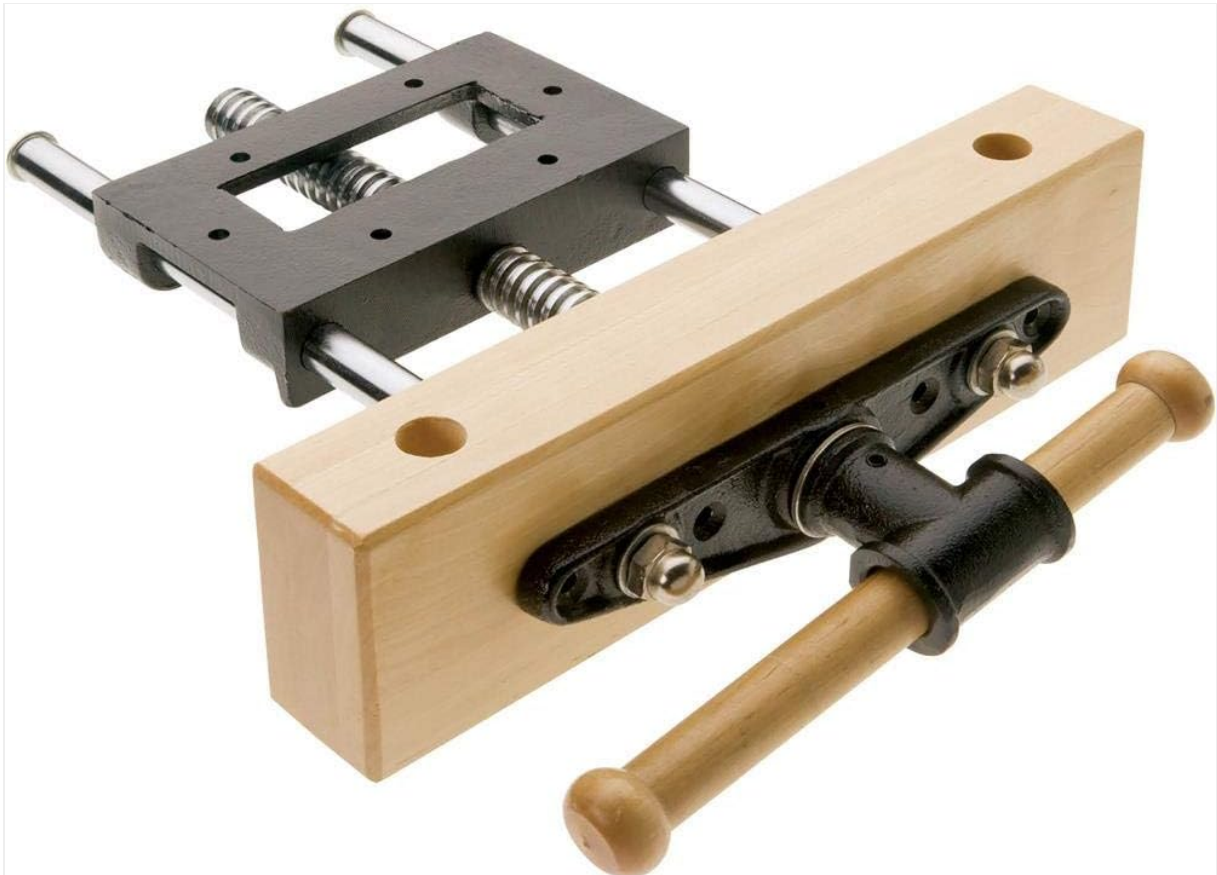


Image 1: Assembled Woodstock D4648 Cabinet Maker's Front Vise. This image shows the vise fully assembled, highlighting the wooden jaw, metal screw mechanism, and handle.

2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent injury and ensure proper operation:

- **Wear Safety Glasses:** Always wear appropriate eye protection when working with tools and materials.
- **Secure Mounting:** Ensure the vise is securely mounted to a stable workbench before use. Loose mounting can lead to instability and accidents.
- **Do Not Overtighten:** Avoid excessive force when tightening the vise, as this can damage the workpiece, the vise, or the workbench.
- **Keep Hands Clear:** Keep hands and fingers away from moving parts, especially the screw mechanism and jaws, during operation.
- **Inspect Before Use:** Regularly inspect the vise for any signs of damage or wear. Do not use if components are loose, bent, or broken.
- **Proper Workpiece Placement:** Ensure the workpiece is properly seated and balanced within the jaws to prevent slippage or twisting.

3. PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- 1x Vise Body (Cast Iron/Steel Mechanism)
- 1x Wooden Front Jaw (Solid Birch)
- 1x Lead Screw
- 2x Guide Rods
- 1x Wooden Handle
- Mounting Hardware (Screws, Nuts, Washers - quantity may vary)

4. SETUP AND INSTALLATION

Proper installation is crucial for the stability and functionality of the vise. This vise is designed to fit workbench tops approximately 1-1/2 inches thick.

1. **Prepare Workbench:** If your workbench top is thicker than 1-1/2 inches, it may be necessary to route or recess the underside of the bench to achieve the required thickness for proper mounting.
2. **Position Vise:** Determine the desired location for the vise on your workbench. Ensure there is sufficient clearance for operation and that the vise will not interfere with other tools or activities.
3. **Mark Mounting Holes:** Hold the vise body against the underside of the workbench and mark the positions for the mounting screws.
4. **Drill Pilot Holes:** Drill pilot holes appropriate for your chosen mounting hardware. Ensure the pilot holes are straight and do not penetrate through the top surface of your workbench.
5. **Attach Vise Body:** Secure the vise body to the workbench using appropriate lag screws or bolts. Note that the design of some mounting holes may limit the use of lag screws or washers, requiring careful selection of fasteners.
6. **Install Wooden Jaw:** Attach the solid birch wooden jaw to the vise mechanism. Use the provided

screws, taking care not to overtighten, as some screws may be prone to stripping.

7. **Assemble Handle:** Insert the wooden handle into the lead screw. The handle is typically not threaded and may require adhesive (e.g., wood glue) to secure it firmly in place.



Image 2: Underside view of the vise mechanism. This image illustrates the metal components, lead screw, and guide rods, providing a reference for mounting.

5. OPERATING INSTRUCTIONS

Follow these steps for effective use of your front vise:

1. **Open Vise:** Turn the wooden handle counter-clockwise to open the jaws to the desired width. The maximum jaw opening is approximately 5-7/8 inches.
2. **Insert Workpiece:** Place the workpiece between the wooden jaw and the edge of your workbench. Ensure the workpiece is positioned evenly and securely.
3. **Close Vise:** Turn the wooden handle clockwise to close the jaws until the workpiece is held firmly. Apply only enough pressure to secure the workpiece without causing damage.
4. **Utilize Bench Dog Holes:** The wooden jaw features 3/4-inch bench dog holes. These can be used in conjunction with bench dogs inserted into your workbench to secure irregularly shaped or longer workpieces. Note that the spacing of these holes may not be standard (e.g., 10 inches on center rather than 4 inches).
5. **Release Workpiece:** To release, turn the handle counter-clockwise until the jaws open sufficiently to remove the workpiece.

6. MAINTENANCE

Regular maintenance will prolong the life and performance of your vise:

- **Lubrication:** Periodically apply a small amount of wax or grease to the lead screw to ensure smooth operation and prevent wear.
- **Cleaning:** Keep the vise free from sawdust, debris, and grime. Wipe down metal parts with a clean cloth.

- **Inspect Fasteners:** Regularly check all mounting screws and other fasteners for tightness. Retighten as necessary.
- **Wooden Jaw Care:** The wooden jaw can be cleaned with a damp cloth. If it becomes worn or damaged, it can be replaced.

7. TROUBLESHOOTING

Refer to the following common issues and their potential solutions:

- **Vise Twists When Clamping:** Ensure the workpiece is centered and evenly supported. If clamping on one side, consider using a spacer on the opposite side to distribute pressure. Verify the vise is securely mounted to the workbench.
- **Difficulty Turning Handle/Screw:** The lead screw may require lubrication. Apply wax or grease as described in the Maintenance section. Check for any obstructions in the screw mechanism.
- **Workpiece Not Holding Securely:** Ensure the jaws are clean and free of debris. Check if the wooden jaw is worn or damaged. Verify that the vise is fully tightened.
- **Bench Dog Holes Not Standard:** The 3/4-inch bench dog holes on the wooden jaw are spaced approximately 10 inches on center, which may not align with standard 4-inch on-center workbench dog holes. Plan your dog hole usage accordingly or adapt with custom dog designs.

8. SPECIFICATIONS

Feature	Specification
Model Number	D4648
Jaw Dimensions	13" wide x 3-1/2" high x 2" thick (Solid Birch)
Maximum Jaw Opening	5-7/8"
Workbench Thickness Compatibility	1-1/2" (nominal)
Screw Size	1" diameter x 11-1/2" long
Bench Dog Holes	3/4" diameter (approx. 10" on center)
Material	Alloy Steel, Cast Iron (mechanism), Solid Birch (jaw)
Item Dimensions (L x W x H)	15.2 x 16.7 x 3.7 inches
Item Weight	13.32 pounds
UPC	754001014039

9. WARRANTY INFORMATION

The Woodstock D4648 Cabinet Maker's Front Vise comes with a 1-year warranty. This warranty assures that the unit is free from factory defects under normal use and service. Please retain your proof of purchase for warranty claims.

10. SUPPORT AND CONTACT

Should you have any questions regarding the installation, operation, maintenance, or warranty of your Woodstock D4648 Vise, please contact our knowledgeable staff. Our U.S. based Technical Documentation Department is available to assist you with troubleshooting problems and processing warranty claims.

For contact details, please refer to the official Woodstock website or your product packaging.